

# Program

## Workshop in Calculus of Variations 8-10 décembre 2021 in Nancy (University of Lorraine, AMPHI 7 FST)

### Day 1: Wednesday 08th December 2021

9h30-10h20	Welcome Coffee
10h20-10h30	Information from the organizers
<i>Chair: Yannick Privat</i>	
10h30-11h30	<b>Filippo Santambrogio</b> “Metric methods for heteroclinic connexions”
11h30-12h00	<b>Marco Michetti</b> “A comparison between Neumann and Steklov eigenvalues”
12h00-12h30	<b>Dominik Stantejsky</b> “Variational Convergence of Liquid Crystal Energies to Line and Surface Energies”
13h00	Lunch
<i>Chair: Antonin Chambolle</i>	
14h30-15h30	<b>Chloé Jimenez</b> “Some results about a notion of viscosity solutions in the space of Wasserstein”
15h30-16h30	<b>Emanuele Paolini</b> “Minimal planar clusters”
16h30-17h00	Coffee break
17h00-17h30	<b>Mickael Nahon</b> “Shape optimization of a thermal insulation problem with general heat transfer condition”
17h30	Free time

**Day 2: Thursday 09th December 2021**

<i>Chair: Michael Goldman</i>	
9H00-10h00	<b>Guy Bouchitté</b> “Optimal design versus optimal Monge-Kantorovich metrics”
10h00-10h30	<b>Elise Bonhomme</b> “Discrete approximation of the Griffith functional”
10h30-11h00	Coffe break
<i>Chair: Gisella Croce</i>	
11h00-12h00	<b>Charles Dapogny</b> “A new approach to topological ligaments in shape optimization”
12h00-12h30	<b>Salah-Eddine Zerrouq</b> “Inverse Homogenization”
13h00	Lunch
14h30-15h30	<b>POSTER SESSION</b> <i>Chair: Antoine Henrot</i>
15h30-16h00	Coffee Break
<i>Chair: Dorin Bucur</i>	
16h00-16h30	<b>Raphael Prunier</b> “Regularity for isoperimetric problems under convexity constraint”
16h30-17h00	<b>Ilias Ftouhi</b> “Where to place a spherical obstacle so as to maximize the first Steklov eigenvalue ? ”
Cocktail: CANCELLED	

### Day 3: Friday 10th December 2021

<i>Chair: Jean-François Babadjian</i>	
9H00-10h00	<b>Pierre Seppecher</b> “A homogenization result leading to stress-gradient effective behavior”
10h00-10h30	<b>Benjamin Lledos</b> “A uniqueness result for a problem invariant under translation in the calculus of variations”
10h30-11h00	Coffee Break
<i>Chair: Jimmy Lamboley</i>	
11h00-11h30	<b>Marc Pegon</b> “Un problème isopérimétrique avec compétition entre le périmètre classique et un périmètre non-local”
11h30-12h30	<b>Petru Mironescu</b> “Sobolev maps to manifolds”
13h00	Lunch
14h00-18h00	Free time, discussions (some rooms will be available for discussions between participants)